

INTERNATIONAL SEARCH REPORT

International Application No
PCT/JP2005/009216

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G02F1/1335 G02F1/139

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G02F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 016, no. 241 (P-1363), 3 June 1992 (1992-06-03) -& JP 04 052625 A (RICOH CO LTD), 20 February 1992 (1992-02-20) cited in the application abstract	1-7, 10-16
A	US 6 014 195 A (SAKAMOTO ET AL) 11 January 2000 (2000-01-11) column 39, line 1 - column 40, line 67; figures 75-78	7-16
A	EP 0 846 975 A (SEIKO EPSON CORPORATION) 10 June 1998 (1998-06-10) the whole document	1
	-/--	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

21 July 2005

Date of mailing of the international search report

29/07/2005

Name and mailing address of the ISA
European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Ammerlahn, D

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2005/009216

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 404 236 A (HARTMANN ET AL) 4 April 1995 (1995-04-04) the whole document -----	7
X,P	WO 2004/042687 A (CANON KABUSHIKI KAISHA; ASAO, YASUFUMI; ISOBE, RYUICHIRO) 21 May 2004 (2004-05-21) page 31, line 13 - page 38, line 12; figures 2E,18,20 -----	7,10-14

INTERNATIONAL SEARCH REPORT

International Application No

PCT/JP2005/009216

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
JP 04052625 A	20-02-1992	JP 2921589 B2	19-07-1999
US 6014195 A	11-01-2000	JP 9068707 A	11-03-1997
		JP 9073105 A	18-03-1997
		JP 9120064 A	06-05-1997
		JP 9127498 A	16-05-1997
		JP 9127479 A	16-05-1997
EP 0846975 A	10-06-1998	EP 0846975 A1	10-06-1998
		US 2002015121 A1	07-02-2002
		WO 9745766 A1	04-12-1997
		TW 436658 B	28-05-2001
US 5404236 A	04-04-1995	NL 9000942 A	18-11-1991
		DE 69115103 D1	18-01-1996
		DE 69115103 T2	27-06-1996
		EP 0453033 A1	23-10-1991
		JP 4230787 A	19-08-1992
WO 2004042687 A	21-05-2004	JP 2004258616 A	16-09-2004
		AU 2003276715 A1	07-06-2004
		WO 2004042687 A2	21-05-2004